

## CLAIMS

What is claimed is:

1. A wireless heartbeat detector comprising:

a wireless pulsation detector for detecting heartbeat signals and transmitting heartbeat signals,

5 and a wireless receiving display for displaying the heartbeat value;

wherein said wireless pulsation detector having at least one heartbeat detector, a signal processing circuitry and a wireless signal transmission circuitry; said heartbeat detector is an infrared detector to detect the pulsation signals; said signal processing circuitry receives, converts and amplifies the signals into more stable signals; said wireless signal transmission

10 circuitry encodes and transmits the stable signals;

when said heartbeat detector detects the pulsation signals from earlobe or finger tips, the pulsation signals are received, converted and amplified by said signal processing circuitry, the processed and more stable signals then are encoded and transmitted out through said radio frequency wireless signal transmission circuitry.

2. The wireless heartbeat detector recited in claim 1, wherein said heartbeat detector is reflection infrared detector or penetration infrared detector.

3. The wireless heartbeat detector recited in claim 1, wherein said wireless receiving display 20 is connected to a display apparatus, or carried on wrist or on waist.

4. The wireless heartbeat detector recited in claim 1, wherein said wireless signal transmission circuitry can be placed on the cloth, heads, earlobe collars, finger tips or wrist of the users.